Package Sub-Station



We are authorized distributor of C & S make Electric package substations are for upto 24KV. The fully equipped Package Substation (PSS), comprises of outdoor duty enclosure, medium voltage switchgear, distribution transformer, low voltage panel & AFPCR panel (optional) is a state of art equipment for all your power distribution requirements.

The PSS assembled is completely self-contained package substation is a complete weather proof solution. It only requires to connect incoming and outgoing cables and hence the site work involved is an absolute minimum.

Each PSS contains three main equipments: Transformer, MV Switchgear and LV switchgear.

Technical Details

•

Rated voltage		12	24
Rated Insulation level	kV rms,50 Hz 1 min.	28	50
	kV impulse, 1.2/50 s	75	125
Rated frequency		50	50
Rated current		630	630
	kA rms – 1 s	21	16
Max. allowable impulse current withstand	kA peak	50	40
Maximum LV Current		3200	3200
LV current withstand		50/65	50/65
Ambient temp.	Normal operating condition	-5 ∘C t	o 45 ∘C
		+50 °C or +60 °C	

FEATURES

- Self-contained package substation
- All the equipment packed in a separate compartment
- All compartments are individually accessible
- Individual Door Operated lamp for illumination purpose
- Complete weather Proof solution
- Ready to position solution
- Four lifting eyes for ease of lifting
- Minimum site work

Details

Enclosure Outdoor

Enclosure outdoor body is made of Galvanized sheet steel in corrugated type design for proper heat dissipation. The enclosure is painted with epoxy based powder paint (colour-RAL 7032) suitable for outdoor installations. The compartments are provided with separate doors and pad locking arrangements. Each compartment is fitted with door operated lamp for illumination purpose. For safety purpose, the transformer compartment doors are fitted with arc reflectors.

The Medium Voltage (MV) switchgear compartment

The Medium Voltage (MV) switchgear compartment is equipped with C&S make SF6 insulated Ring Main Unit. The GC is equipped with SF6 insulated sealed tank, Switch disconnectors and Vacuum circuit breakers. The ring main unit is designed and tested for internal Arc as per IEC 62271-200. The product conforms to IEC62271-1, IEC 62271-100, IEC 62271-103 and IEC 622271-200.

Distribution transformer

The distribution transformer is equipped with professionally designed ventilation openings for air flow to keep transformer cool.

The compartment is provided with a pressure relief system integrated in the ceiling. An optional floor mesh is also provided to restrict the entry of small animals and other foreign objects. The compartment can accommodate both Oil immersed and Dry type transformers. The product conforms to IEC 2026 and IS 11171.

Low Voltage switchgear

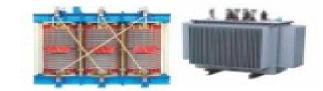
This compartment contains the Low Voltage Distribution Board (LVDB), which is fed from the secondary side of the transformer. The LVDB can be designed in different arrangements and configurations in order to suit any specific application. Busbars are provided for the phases and neutral suitable to the transformer secondary voltage and current ratings. A ground bus linked to the neutral bus is also provided.

The following equipment can be accommodate inside the panel;

- 1. Air Circuit Breaker (ACB's)
- 2. Moulded case circuit breakers (MCCB's)
- 3. LV Fuse switches / Fuse ways
- 4. Instrumentation and metering
- 5. APFC Panel (optional)











Rated voltage		24
Rated Insulation level	kV rms,50 Hz 1 min.	50
	kV impulse, 1.2/50 s	125
Rated frequency		50
Rated current		630
	l	l

		kA rms – 1 s	16
Max. allow current wit	able impulse hstand	kA peak	40
Maximum	LV Current		3200
LV current	withstand		50/65
	N	ormal	-5 ∘C to 45 ∘C
Ambient	operating		+50 °C or +60 °C
temp.	CO	ndition	

Rated voltage	kV	24
Rated Insulation level	kV rms,50 Hz 1 min.	50
	kV impulse, 1.2/50 s	125
Rated frequency		50
Rated current	Amp	630
Max. allowable impulse	kA rms – 1 s	16
current withstand	kA peak	40
Maximum LV Current	Amp	3200
LV current withstand	kV	50/65
	Normal	-5 ∘C to 45 ∘C

Ambient temp. operating condition +50 °C or +60 °C
--

Technical Details

Rated voltage	kV	12
Rated Insulation level	kV rms,50 Hz 1 min.	28
	kV impulse, 1.2/50 s	75
Rated frequency		50
Rated current	Amp	630
Max. allowable impulse	kA rms – 1 s	21
current withstand	kA peak	50
Maximum LV Current	Amp	3200
LV current withstand	kV	50/65
	Normal	-5 ∘C to 45 ∘C
Ambient temp.	operating condition	+50 ∘C or +60 ∘C